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|       |                             |         |            | Application Number     | 10/676,726-Conf. #2945 |  |  |  |
| 11    | <b>IFORMATION</b>           | I DI    | SCLOSURE   | Filing Date            | October 1, 2003        |  |  |  |
| l s   | TATEMENT B                  | 3Y /    | APPLICANT  | First Named Inventor   | Richard D. Thornton    |  |  |  |
|       |                             |         |            | Art Unit               | 2834                   |  |  |  |
|       | (Use as many sh             | eets as | necessary) | Examiner Name          | B. S. Mullins          |  |  |  |
| Sheet | 1                           | of      | 1          | Attorney Docket Number | 102320-0037            |  |  |  |

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| Examiner<br>Initials* | Cite                  | Document Number                           | Publication Cate | Name of Patentee or | Pages, Columns, Lines, Where                    |  |  |  |  |  |  |  |
|                       | No.                   | Number-Kind Code <sup>2</sup> ( li known) | MM-DD-YYYY       |                     | Relevant Passages or Relevant<br>Figures Appear |  |  |  |  |  |  |  |
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| Examiner  | Cite | Foreign Patent Document   |            | Name of Patentee or |  |  |  |  |
| Initials* | No.1 | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |            |                     |  |  |  |  |
| 75W       | BA   | EP 1283586 A1   | 02-12-2003 | Ohto, Motomichi     |  |  |  |  |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \*Applicant's unique citation designation number (optional). \*See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. \*Senter Office that issued the document, by the two-letter code (WIPO Standard ST.3). \*For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \*Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. \*Applicant is to place a check mark here if English language Translation is attached.

|                      |              | NON PATENT LITERATURE DOCUMENTS   |                |
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| Examiner<br>Initials | Cite<br>No.1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
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| BM                   | CG           | Li, Touzhu and Gordon Slemon, "Reduction of Cogging Torque in Permanent Magnet Motors", IEEE Transactions on Magnetics, Vol. 24, No. 6, November 1988, pp.2901-2903.  |                |

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

| Examiner<br>Signature | Brhun | Date<br>Considered | 2/17/05 |   |
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<sup>&#</sup>x27;Applicant's unique citation designation number (optional). 'Applicant is to place a check mark here if English language Translation is attached.



PTO/SB/08a/b (08-03)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE on Act of 1995, no persons are required to respond to a collection of information unlass it contains a valid OMB control number.

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|       |                             |         |            | Application Number     | 10/676,726-Conf. #2945 |  |  |  |
| 11    | NFORMATIO                   | N DI    | SCLOSURE   | Filing Date            | October 1, 2003        |  |  |  |
| l s   | TATEMENT                    | BY A    | APPLICANT  | First Named Inventor   | Richard D. Thornton    |  |  |  |
|       |                             |         |            | Art Unit               | 2834                   |  |  |  |
|       | (Use as many sh             | eets as | necessary) | Examiner Name          | B. S. Mullins          |  |  |  |
| Sheet | 1                           | of      | 1          | Attorney Docket Number | 102320-0037            |  |  |  |

|           | U.S. PATENT DOCUMENTS |  |                  |                             |   |  |  |  |  |  |  |  |
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| Examiner  | Cite                  | Document Number                          | Publication Date | Name of Patentee or         | Pages, Columns, Lines, Where                    |  |  |  |  |  |  |  |
| Initiats* | No.                   | Number-Kind Code <sup>2</sup> ( # known) | MM-DD-YYYY       | Applicant of Cited Document | Relevant Passages or Relevant<br>Figures Appear |  |  |  |  |  |  |  |
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| Examiner<br>Initials* | Cite<br>No.1 | Foreign Patent Document  Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) | Publication<br>Cate<br>MM-OD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>or Relevant Figures Appear | 7€ |
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| Examiner Initials | Cite<br>No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T² |
| 44                |                          |   |    |

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| Examiner Signature PM | Date<br>Considered | 2/17/05                               |
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<sup>&#</sup>x27;Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE ATTY. DOCKET NO: 0102320-00037

APPLICATION NO: 10/676,726

APPLICANT(S):

Thornton et al. FILING DATE:

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| BM                      |            | 29 669                        |                 |                         |                    |                    |                   | 7/22/87                              | EP                              |                          |                             |                                       |  |                    |
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|  | n             | VEOR     | MAT      | TON 1            | DISC      | LOST     | RE C     | TATE         | <b>TION</b>                                  |             | APPLICAN<br>Thornton et |               |                    |                            |             |
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| EXAMIN<br>ER<br>INITIAL                              |               |          | DO       | CUM              | ENT       | NUM      | BER      |              | DATE   |             | NAME                    | CLASS         | SUBCLAS<br>S       | FILING<br>II<br>APPRO<br>E | PRIAT       |
| Bon  |               | 4        | 7        | 9                | 4         | 8        | 6        | 5            | 1/3/89                                       | Lindb       | erg                     | 104           | 246                |                            |             |
| Bm   |               | 4        | 8        | 0                | 0         | 3        | 2        | 8            | 1/24/89                                      | Bolge       | r et al.                | 320           | 2                  |                            |             |
|  | 1-            | 4        | 8        | 2                | 6         | 3        | 4        | 4            | 6/6/89                                       | Bolge       | ,                       | 191           | 10                 | WO                         | 19 P. N     |
| Bn   |               | 4        | 9        | 1                | 4         | 5        | 3        | 9            | 4/3/90                                       | Turne       | r et al.                | 361           | 18                 |                            |             |
| <del>۔ ۲۰۰۱</del><br>ا                               | 1             | 5        | 0        | 3                | 2         | 7        | 4        | 6            | 7/16/91                                      | Ueda        | et al.                  | 310           | 12                 |                            | $\neg$      |
|  |               | 5        | 1        | 0                | 8         | 0        | 5        | 2            | 4/28/92                                      | Malev       | vicki et al.            | 246           | 5                  |                            |             |
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|  | 5 2 1 4 9 8 1 |          |          |                  |           |          | 8        | 1            | 6/1/93                                       | Wein        | perger et al.           | 74            | 573                |                            |             |
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| V  | 1             | <u> </u> | <u> </u> | ـــــــ          | <u> </u>  | <u> </u> | FOR      | EIG          | N PATENT                                     | DOCU        | MENTS                   | <u>-L</u>     | <u> </u>           |                            |             |
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|  |               |          |          |                  |           |          |          | •            |  |             |                         |               |                    | YES                        | NO          |
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|                                    |   | <b>.</b>      | EAR           | <b>D.C.A.</b> (7) | TON!               | DISC:                | CON      | DD C               | 1 TATO 4 OF         | TON                                      |               | APPLICANT                            |              |                    |                            |               |
|                                    |   | IIV           |               | MAT<br>(Use s     |                    |                      |          |                    |                     | TUN                                      |               | FILING DA'<br>10/1/2003              | ГЕ:          | GROUP              | ART UN                     | IT:           |
|                                    |   |               |               | ·                 |                    |                      | <u> </u> |                    |                     | ATENT DO                                 | CUME          | NTS                                  |              | L                  | · — <u>-</u>               |               |
| EXAI<br>EF<br>INIT                 | ₹ |               |               | DO                | CUM                | ENT I                | NUM      | BER                |                     | DATE                                     |               | NAME                                 | CLASS        | SUBCLAS<br>S       | FILING<br>II<br>APPRO<br>E | PRIAT         |
| Bo                                 | m |               | 5             | 2                 | 5                  | 1                    | 5        | 6                  | 3                   | 10/12/93                                 | Staeh         | s et al.                             | 104          | 168                |                            |               |
| 1                                  |   |               | 5             | 2                 | 6                  | 3                    | 6        | 7                  | 0                   | 11/23/93                                 | Colba         | ugh et al.                           | 246          | 63                 |                            |               |
|                                    |   |               | 5             | 2                 | 6                  | 7                    | 5        | 1                  | 4                   | 12/7/93                                  | Staeh         | s et al.                             | 104          | 246                |                            |               |
|                                    |   |               | 5             | 2                 | 7                  | 7                    | 1        | 2                  | 4                   | 1/11/94                                  | DiFor         | nso et al.                           | 104          | 130                |                            |               |
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| 1                                  |   |               | 5             | 2                 | 9                  | 3                    | 3        | 0                  | 8                   | 3/8/94                                   | Boys          | et al.                               | 363          | 37                 |                            |               |
| ,-                                 |   |               | 5             | 3                 | 2                  | 5                    | 9        | 7                  | 4                   | 7/5/94                                   | Staehs        | 3                                    | 211          | 60.1               |                            |               |
|                                    |   | 5 4 0 9 0 9 5 |               |                   |                    |                      |          | 9                  | 5                   | 4/25/95                                  | Hoshi         | et al.                               | 198          | 372                |                            |               |
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| V                                  | 7 |               | 5             | 4                 | 4                  | 4                    | 3        | 4 .                | 1                   | Kneif                                    | el, II et al. | 318                                  | 432          |                    |                            |               |
|                                    |   |               |               |                   |                    |                      |          | FOR                | EIG                 | N PATENT I                               | OCU           | MENTS                                | <u></u>      | ·                  |                            |               |
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|                                    |   |               | *EXA          | MINE<br>rmance    | R: Initi<br>and co | al if ref<br>nsidere | erence ( | conside<br>ade cop | red, wh<br>y of thi | ether or not citations form with next of | on is in co   | onformance with Nation to applicant. | APEP 609; Dr | aw line through c  |                            | in<br>1_1.DOC |

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|      |                  | R             | NFOR | MAT    | ION I     | DISCI     | LOSU     | RE C     | ITAT           | TON  |          | APPLICANT<br>Thornton et a |             | ·                 |                            |       |
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| E    | MIN<br>R<br>TIAL |               |      |        |           |           | NUM      | BER      |                | DATE   |          | NAME                       | CLASS       | SUBCLAS<br>S      | FILING<br>II<br>APPRO<br>E | PRIAT |
| B    | M                |               | 5    | 4      | 5         | 0         | 3        | 0        | 5              | 9/12/95                                      | Boys     | et al.                     | 363         | 24                |                            |       |
|      |                  |               | 5    | 4      | 5         | 2         | 6        | 6        | 3              | 9/26/95                                      | Berdu    | t -                        | 104         | 283               |                            |       |
|      |                  |               | 5    | 4      | 6         | 7         | 7        | 1        | 8              | 11/21/95                                     | Shibat   | a et al.                   | 104         | 284               |                            |       |
|      |                  |               | 5    | 5      | 1         | 7         | 9        | 2        | 4              | 5/21/96                                      | He et    | al.                        | 104         | 286               |                            |       |
|      |                  |               | 5    | 5      | 1         | 9         | 2        | 6        | 6              | 5/21/96                                      | Chitay   | at .                       | 310         | 12                |                            |       |
|      |                  |               | 5    | 5      | 2         | 1         | 4        | 5        | 1              | 5/28/96                                      | Oudet    | et al.                     | 310         | 266               |                            |       |
| •    |                  |               | 5    | 5      | 2         | 3         | 6        | 3        | 7              | 6/4/96                                       | Miller   | ,                          | 310         | 156               |                            |       |
|      |                  | 5 5 2 8 1 1 3 |      |        |           |           |          |          | 3              | 6/18/96                                      | Boys e   | et al.                     | 318         | 16                |                            |       |
|      |                  | 5 5 5 1 3 5 0 |      |        |           |           |          |          | 0              | 9/3/96                                       | Yama     | da et al.                  | 104         | 293               |                            |       |
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|      |                  |               |      |        |           |           |          |          |                |  |          |                            |             | , <u>-</u>        | YES                        | NO    |
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| Exan | iner             |               |      | Cons   | 17/0      | 5         |          |          |                |  |          |                            |             |                   |                            |       |
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|                          | IMI           | - CO TO 1 | N.E.A. TET | ION I     | MCCI      | OCI      | DF C    | TT A T   | TON                     |          | APPLICANT<br>Thornton et a |              | 1                                     |                            |         |
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| EXAMIN<br>ER<br>INITIAL  |               |           | DO         | CUMI      | ENT 1     | NUME     | BER     |          | DATE                    |          | NAME                       | CLASS        | SUBCLAS<br>S                          | FILING<br>II<br>APPRO<br>E | RIAT    |
| Rom                      | :             | 5         | 5          | 9         | 0         | 6        | 0       | 4        | 1/7/97                  | Lund     |                            | 104          | 88.04                                 |                            |         |
| DIN                      | :             | 5         | 5          | 9         | 0         | 9        | 9       | 5        | 1/7/97                  | Berke    | rs et al.                  | 414          | 357                                   | <u>=</u>                   |         |
|                          | :             | 5         | 5          | 9         | 2         | 1        | 5       | 8        | 1/7/97                  | Riffau   | ıd                         | 340          | 941                                   |                            |         |
|                          | :             | 5         | 5          | 9         | 5         | 1        | 2       | 1        | 1/21/97                 | Elliott  | t et al.                   | 104          | 53                                    | -                          |         |
|                          | :             | 5         | 6          | 1         | 9         | 0        | 7       | 8        | 4/8/97                  | Boys     | ėt al.                     | 307          | 85                                    |                            |         |
|                          | :             | 5         | 7          | 0         | 9         | 2        | 9       | 1        | 1/20/98                 | Nishir   | no et al.                  | 191          | 10                                    |                            |         |
| 1                        | - :           | 5         | 7          | 2         | 0         | 4        | 5       | 4        | 2/24/98                 | Bache    | etti et al.                | 246          | 34                                    |                            |         |
|                          | 5 7 2 3 9 1 7 |           |            |           |           |          |         |          | 3/3/98                  | Chitay   | yat                        | 310          | 12                                    |                            | -       |
|                          | 5 7 5 7 1 0 0 |           |            |           |           |          |         | 0        | 5/26/98                 | Burgb    | oacher                     | 310          | 186                                   |                            |         |
| V                        |               | 5         | 8          | 2         | 1         | 6        | 3       | 8        | 10/13/98                | Boys     | et al.                     | 307          | 104                                   |                            |         |
| <u></u>                  |               |           |            |           |           |          | FOR     | EIG      | PATENT D                | OCU      | MENTS                      |              |                                       | L                          |         |
|                          |               |           | DO         | CUMI      | ENT 1     | NUMI     | BER     |          | DATE                    | CO       | UNTRY                      | CLASS        | SUBCLASS                              | TRANS<br>N                 |         |
|                          |               |           |            |           |           |          |         |          |                         |          |                            |              |                                       | YES                        | NO      |
|                          |               |           |            |           |           |          |         |          |                         |          |                            |              | <u>-</u> .                            | <u>'</u>                   |         |
|                          |               |           |            |           |           |          |         |          |                         |          |                            |              |                                       |                            |         |
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|                          |               |           |            |           |           |          |         |          |                         |          |                            |              |                                       |                            |         |
| Examiner                 |               |           |            | idered    |           |          |         |          |                         |          |                            |              |                                       |                            |         |
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|----------------------|-----------------------------------|---------------|---------------|--------|-----------|-----------|----------|---------|-------------|-----------------------|------------|----------------------------|-------------|--------------------|---------------------------------|------|
|                      |                                   | IN            | FOR           | MAT    | ION I     | DISCI     | LOSU     | RE C    | TAT!        | TON                   |            | APPLICANT<br>Thornton et a |             | <del>-  </del>     |                                 |      |
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|                      |                                   |               |               |        |           |           |          | U       | .S. P       | ATENT DO              | CUME       | NTS                        |             |                    |                                 |      |
| EXAM<br>ER<br>INITIA | AL<br>/                           |               |               | DO     |           | ENT 1     | NUMI     |         |             | DATE                  |            | NAME                       | CLASS       | SUBCLAS<br>S       | FILING D<br>IF<br>APPROPE<br>E* |      |
| B                    | $\sim$                            |               | 5             | 8      | 3         | 9         | 5        | 5       | 4           | 11/24/98              | Clark      |                            | 191         | 10                 |                                 |      |
| 1                    |                                   |               | 5             | 8      | 9         | 8         | 5        | 7       | 9           | 4/27/99               | Boys       | et al.                     | 363         | 23                 |                                 |      |
|                      |                                   |               | 5             | 9      | 2         | 7         | 6        | 5       | 7           | 7/27/99               | Takas      | an et al.                  | 246         | 194                |                                 |      |
|                      |                                   |               | 5             | 9      | 5         | 2         | 7        | 4       | 3           | 9/14/99               | Sidey      |                            | 310         | 12                 |                                 |      |
| •                    |                                   |               | 5             | 9      | 9         | 0         | 5        | 9       | 2           | 11/23/99              | Miura      | et al.                     | 310         | 156                |                                 |      |
|                      |                                   | _             | 6             | 0      | 0         | 5         | 5        | 1       | 1           | 12/21/99              | Young      | g et al.                   | 342         | 70                 |                                 |      |
| •                    |                                   |               | 6             | 0      | 0         | 8         | 5        | 5       | 2           | 12/28/99              | Yagot      | o et al.                   | 310         | 12                 |                                 |      |
|                      |                                   | 6 0 1 1 5 0 8 |               |        |           |           | 1/4/00   | Perrea  | ault et al. | 342                   | 350        |                            |             |                    |                                 |      |
|                      |                                   |               | 6 0 3 4 4 9 9 |        |           |           |          |         | 9           | 3/7/00                | Trano      | vich                       | 318         | 650                |                                 |      |
|                      | /                                 |               | 6             | 0      | 8         | 1         | 0        | 5       | 8           | 6/27/00               | Suzuk      | i et al.                   | 310         | 156                |                                 |      |
|                      |                                   |               |               |        |           |           | •        | FOR     | EIGN        | PATENT I              | OCU        | MENTS                      |             |                    |                                 |      |
| •                    |                                   |               |               | DO     | CUMI      | ENT 1     | MUV      | BER     |             | DATE                  | CO         | UNTRY                      | CLASS       | SUBCLASS           | TRANSLA<br>N                    | OITA |
|                      |                                   |               |               |        |           |           |          |         |             |                       |            |                            |             |                    | YES                             | NO   |
| •                    |                                   |               |               |        |           |           |          |         |             |                       |            |                            |             |                    |                                 |      |
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|                      |                                   |               |               | ОТН    | ER I      | OOCI      | JME      | NTS     | (inclu      | ding Author,          | Title,     | Date, Pertine              | ent Pages,  | Etc.)              |                                 |      |
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|                      | Examiner Date Considered: 2(17/65 |               |               |        |           |           |          |         |             |                       |            |                            |             |                    |                                 |      |
| <u> </u>             |                                   |               | *EXA          | MINE   | l: Initia | l if refe | rence o  | onside  | ed, wh      | ether or not citatio  | n is in co | nformance with M           | PEP 609; Dr | w line through c   | itation if not in               |      |
| <del></del>          |                                   |               | confor        | mance  | and cor   | nsidered  | i. Inclu | ide cop | y of this   | form with next co     | ommunic    | ation to applicant.        |             | ······             | 1181914_1                       | .DOC |

| Form PTO-<br>(Rev. 8-83)              |                           |      |        |           |           |          |         |           | OF COMMEI            |            | ATTY. DOC<br>0102320-000             |              | APPLIC<br>10/676,7 | ATION N            | 0:    |
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| (2000)                                |                           |      |        |           |           |          |         |           |                      |            | APPLICANT                            |              |                    |                    |       |
|                                       | IN                        | FOR  | MAT    | ION I     | DISC      | LOSU     | RE C    | TAT       | TON                  |            | Thornton et a                        |              |                    |                    |       |
|                                       |                           | ,    | (Use s | evera     | l shee    | ts if n  | ecessa  | ury)      |                      |            | FILING DAT<br>10/1/2003              | re:          | GROUP              | ART UNI            | T:    |
|                                       |                           |      |        |           |           |          | U       | .S. P     | ATENT DO             | CUME       | ENTS                                 |              |                    | <del></del> -      |       |
| EXAMIN<br>ER                          |                           |      | DO     | CUM       | ENT       | NUM      | BER     |           | DATE                 |            | NAME                                 | CLASS        | SUBCLAS            | FILING             |       |
| INITIAL                               |                           |      |        |           |           |          |         |           |                      |            |                                      |              | S                  | IF<br>APPROF<br>E* | RIAT  |
| BM                                    |                           | 6    | 0      | 8         | 9         | 5        | 1       | 2         | 7/18/00              | Ansor      | ge et al.                            | 246          | 194                |                    |       |
|                                       |                           | 6    | 1      | 0         | 1         | 9        | 5       | 2         | 8/15/00              | Thorn      | ton et al.                           | 104          | 282                |                    |       |
| Bon                                   |                           | 6    | 2      | 2         | 5         | 9        | 1       | 9         | 5/1/01               | Lumb       | is et al.                            | 340          | 933                |                    |       |
| BM                                    |                           | 6    | 4      | 9         | 9         | 7        | 0       | 1         | 12/31/02             | Thorn      | ton et al.                           | 246          | 194                |                    |       |
| 2,1                                   |                           | 5    | 9      | 0         | 6         | 6        | 4       | 7         | 5/25/99              | Zybu       | rt et al                             | 701          | 24                 |                    |       |
|                                       |                           | 6    | 0      | 6         | 4         | 3        | 0       | 1         | 5/16/00              | Takah      | ashi et al.                          | 340          | 435                |                    |       |
|                                       |                           | 6    | 1      | 0         | 0         | 8        | 2       | 1         | 8/8/00               | Tanji      | et al.                               | 340          | 988                | -                  |       |
|                                       | 6 1 3 7 4 2 4             |      |        |           |           | 10/24/00 | Coher   | et al.    | 340                  | 933        |                                      |              |                    |                    |       |
|                                       | 4 8 3 6 3 4 4             |      |        |           |           | 6/6/89   | Bolge   | r         |                      |            |                                      |              |                    |                    |       |
| $\overline{V}$                        |                           | 4    | 0_     | 3         | 2         | 1        | 7       | r et al.  |                      |            |                                      |              |                    |                    |       |
|                                       |                           |      |        |           |           |          | FOR     | EIG       | N PATENT I           | OCU        | MENTS                                |              |                    | •                  |       |
| •                                     |                           | _    | DO     | CUM       | ENT I     | NUMI     | BER     |           | DATE                 | CO         | UNTRY                                | CLASS        | SUBCLASS           | TRANSL<br>N        | ATIO  |
|                                       |                           |      |        |           |           |          |         |           |                      | -          |                                      |              |                    | YES                | NO    |
| · · · · · · · · · · · · · · · · · · · |                           |      |        |           |           |          |         |           |                      |            |                                      |              |                    |                    |       |
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| Examiner                              | Examiner Date Considered: |      |        |           |           |          |         |           |                      |            |                                      |              |                    |                    |       |
|                                       |                           | *EXA | MINE   | ₹: Initia | l if refe | rence o  | conside | red, wh   | ether or not citatio | n is in co | onformance with Mation to applicant. | IPEP 609; Dr | w line through c   | itation if not     | in I  |
|                                       |                           |      | mante  | an (4)    |           | . HELL   | me cob  | y 01 tdl: | S JUITE WILL BEXT CO | · · · · ·  | auon to applicant.                   |              |                    | 1181914            | 1.DOC |

| Form<br>(Rev.     | PTO-<br>8-83)             | 1449          | _      |          |                  |           |          |         |          | OF COMMEI                             |            | ATTY. DOC<br>0102320-000              |                | APPLIC<br>10/676,                      | ATION 1<br>726 | NO:     |
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|                   |                           | <b></b>       |        |          |                  | l shee    |          |         |          | 1011                                  |            | FILING DAT<br>10/1/2003               | re:            | GROUP                                  | ART UN         | IIT:    |
|                   |                           |               |        |          |                  |           |          | U       | .S. P    | ATENT DO                              | CUME       | NTS                                   |                |  |                |         |
| EXA<br>EI<br>INIT | R                         |               |        | DO       | CUM              | ENT 1     | NUM      | BER     |          | DATE                                  |            | NAME                                  | CLASS          | SUBCLAS<br>S                           | I              | PRIAT   |
| 18                | $\eta_{\Lambda}$          |               | 5      | 9        | 0                | 0         | 7        | 2       | 8        | 5/4/1999                              | Mose       | et al.                                | 324            | 244                                    |                |         |
|                   | ľ                         |               | 6      | 0        | 3                | 2         | 1        | 1       | 0        | 2/29/2000                             | Ishiha     | ra et al.                             | 702            | 150                                    |                |         |
|                   |                           |               | 5      | 1        | 5                | 2         | 2        | 2       | 7        | 10/6/92                               | Kato       |                                       | 104            | 286                                    |                |         |
|                   |                           |               | 5      | 1        | 6                | 1         | 7        | 5       | 8        | 11/10/92                              | Shuto      |                                       | 246            | 419                                    |                |         |
|                   |                           | ·             | 5      | 1        | 7                | 8         | 0        | 3       | 7        | 1/12/93                               | Mihir      | ogi                                   | 74             | 569                                    |                |         |
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|                   |                           |               | 5      | 1        | 9                | 3         | 7        | 6.      | 7        | 3/16/93                               | Mihir      | ogi                                   | 246            | 418                                    | 1              |         |
|                   |                           |               | 5      | 1        | 9                | 9         | 6        | 7       | 4        | 4/6/93                                | Mihir      | ogi                                   | 246            | 434                                    |                |         |
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| ,                 |                           |               | 5      | 7        | 0                | 8         | 4        | 2       | 7        | 1/13/98                               | Bush       | · · · · · · · · · · · · · · · · · · · | 340            | 941                                    |                |         |
| 1                 | <i>'</i>                  |               |        |          |                  |           |          | FOR     | EIG      | N PATENT E                            | OCU        | MENTS                                 | <u> </u>       | <u> </u>                               | <b>-</b>       |         |
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| •                 |                           | _             |        |          |                  |           |          |         |          |                                       |            |                                       |                |  | YES            | NO      |
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| Form PTO-<br>(Rev. 8-83) | 1449     |            |                                       |              |           |  |  |                  | OF COMME<br>EMARK OF                     |             | ATTY. DO<br>0102320-00                |              | APPLIC<br>10/676, | ATION 1<br>726 | NO:             |
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|                          | ľ        | <b>FOR</b> | MAT                                   | ION :        | DISC      | Losu   | JRE (  | CITAT            | TION                                     |             | APPLICAN<br>Thornton et               |              |                   |                |                 |
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| 25M                      |          | 5          | 7                                     | 5            | 7         | 2  | 8  | 8                | 5/26/98                                  | Dixor       | et al.                                | 340          | 941               |                |                 |
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|                          |          |            | · · · · · · · · · · · · · · · · · · · | · · · · · ·  |           |  |  |                  |  |             |                                       |              |                   | YES            | NO              |
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|                          |          | *EXA       | MINE                                  | R: Initia    | al if ref | erence<br>d. Incl                                | conside<br>ude cop                           | red, whoy of thi | ether or not citations form with next of | on is in co | onformance with<br>ation to applican  | MPEP 609; Dr | aw line through o | itation if no  | ot in           |